

ACOUSTIC CORRECTION APPARATUS

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Abstract of the Disclosure

5 An acoustic correction apparatus processes a pair of left and right input signals to
compensate for spatial distortion as a function of frequency when said input signals are
reproduced through loudspeakers in a sound system. The sound-energy of the left and
right input signals is separated and corrected in a first low-frequency range and a second
high-frequency range. The resultant signals are recombined to create image-corrected
10 audio signals having a desired sound-pressure response when reproduced by the
loudspeakers in the sound system. The desired sound-pressure response creates an
apparent sound image location with respect to a listener. The image-corrected signals can
also be spatially-enhanced to broaden the apparent sound image and improve the low
frequency characteristics of the sound when played on small loudspeakers.

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